Original Map

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

0 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 0 0 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 0 0 0 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 0 0

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 0 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 0

A1 trails count: 179 A2 trails count: 277 A3 trails count: 179 A4 trails count: 607 A5 trails count: 319 A6 trails count: 101 A7 trails count: 99 A8 trails count: 145 A9 trails count: 201 A10 trails count: 91

Ant Trail Min Size is: 91 Found at Ant10

Best Ant has size: 91, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x x x x x x 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 x 0 0 0 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x 0 0 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 x x 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 x 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 x 1 0 0 0 0 0 1 0 0 1 0 0 0 0 x x x 0

0 1 1 1 0 0 0 0 0 0 0 x x 0 0 0 1 1 0 0 0 0 1 0 x x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 x 0 0 0 0 0 x x x 1 0 x x 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 x 0 0 x x x x x x x x x 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 x 1 0 x 1 x x x 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 x x 0 x 0 1 0 x 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 x x x x x 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 x x x x x x 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 1

A1 trails count: 109 A2 trails count: 323 A3 trails count: 65 A4 trails count: 107 A5 trails count: 73 A6 trails count: 169 A7 trails count: 191 A8 trails count: 273 A9 trails count: 211 A10 trails count: 129

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 2

A1 trails count: 87 A2 trails count: 97 A3 trails count: 153 A4 trails count: 167 A5 trails count: 183 A6 trails count: 127 A7 trails count: 107 A8 trails count: 243 A9 trails count: 199 A10 trails count: 95

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 3

A1 trails count: 493 A2 trails count: 201 A3 trails count: 259 A4 trails count: 241 A5 trails count: 373 A6 trails count: 657 A7 trails count: 697 A8 trails count: 153 A9 trails count: 317 A10 trails count: 485

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 4

A1 trails count: 197 A2 trails count: 85 A3 trails count: 95 A4 trails count: 105 A5 trails count: 117 A6 trails count: 211 A7 trails count: 79 A8 trails count: 223 A9 trails count: 135 A10 trails count: 819

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 5

A1 trails count: 95 A2 trails count: 119 A3 trails count: 105 A4 trails count: 99 A5 trails count: 135 A6 trails count: 155 A7 trails count: 97 A8 trails count: 125 A9 trails count: 89 A10 trails count: 97

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 6

A1 trails count: 113 A2 trails count: 109 A3 trails count: 89 A4 trails count: 87 A5 trails count: 83 A6 trails count: 183 A7 trails count: 181 A8 trails count: 117 A9 trails count: 133 A10 trails count: 85

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 7

A1 trails count: 1291 A2 trails count: 95 A3 trails count: 147 A4 trails count: 1053 A5 trails count: 2545 A6 trails count: 4153 A7 trails count: 2835 A8 trails count: 1175 A9 trails count: 5881 A10 trails count: 3873

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 8

A1 trails count: 5683 A2 trails count: 5323 A3 trails count: 4155 A4 trails count: 2711 A5 trails count: 3891 A6 trails count: 6415 A7 trails count: 2435 A8 trails count: 3599 A9 trails count: 9247 A10 trails count: 3899

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1

Added in new antGroup 9

A1 trails count: 1207 A2 trails count: 4307 A3 trails count: 7711 A4 trails count: 5273 A5 trails count: 8931 A6 trails count: 2831 A7 trails count: 969 A8 trails count: 1985 A9 trails count: 8479 A10 trails count: 4461

Ant Trail Min Size is: 65 Found at Ant13

Best Ant has size: 65, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 1 s 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0

0 x x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0

x x 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0

x 1 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0

x 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 0

x 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

x 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0

x x x x 1 0 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0

0 0 0 x x 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0

0 1 0 1 x x 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0

1 0 1 0 1 x x x x x x 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0

0 0 1 0 1 1 1 0 0 x x 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0

1 0 0 0 0 1 0 x x x 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0

0 0 0 0 1 0 0 x 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 x x x x x x x x x x x x x 1 1 0 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 x x x 1 0 0 0 0 1 0 0

1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 x x 0 0 0 0 1 0 0

0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 x 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 1 x x x x x x x 0

0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 x x 1 x x

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 x

0 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 x

1 1 0 1 1 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 x x

0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 x 1

0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 e 1

0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 1